

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-22 (cancelled).

23. (Currently Amended) A method of distributing in real-time geospatial data over a object oriented spatial database network connecting together computers, the method comprising:

~~designing object models for the geospatial data including two or more disparate data formats;~~

~~creating an object-oriented database of the geospatial data using the object models;~~

~~storing the object-oriented database on a storage unit connected to the network;~~

receiving from a client computer in the database network specifying an area of interest from a visual image, representing active data objects, displayed on a computer on the network;

identifying data available for the area of interest;

responsive to a request for the data, querying from the computer over the network data objects in the at least one database associated with the area of interest;

receiving from ~~the~~ at least one remote computer over the network data objects in the database associated with the area of interest and creating an object-oriented database of the geospatial data using object models; and

transmitting a web-based applet to the client computer for viewing the data objects
overlaid on a map display
~~displaying on a display unit coupled to the computer the data objects.~~

24. (Previously Presented) The method of claim 23, wherein in the geospatial data includes temporal information.

25. (Currently Amended) The method of claim 23, wherein the data objects are displayed in three ~~dimensional~~ dimensions.

26. (Previously Presented) The method of claim 23, further comprising converting two dimensional data objects to three dimensional data objects and displaying the converted three dimensional data objects.

27. (Previously Presented) The method of claim 23, wherein the querying is performed using an interface system conforming to Common Object Request Broker Architecture.

28. (Cancelled)

29. (Currently Amended) The method of distributing in real-time geospatial data over a network according to claim ~~23~~ 28, wherein the querying includes receiving database, library, theme and features as data objects.

30. (Cancelled)

31. (Currently Amended) A method of building and maintaining an object-oriented spatial database of worldwide geospatial data from at least two or more data formats, the method comprising:

instantiating objects of the object-oriented database, using at least two of Vector Product Format (VPF), Raster Product Format (RPF), Text Product Standard (TPS), Environmental Systems Research Institute (ESRI) shape, Generic Sensor Format (GSF), Naval Oceanographic Office text (NAVOCEANO), and temporal information databases;

initializing spatial and non-spatial feature data of the object-oriented database; ~~and~~
spatially indexing data among objects from the at least two VPF, RPF, TPS, ESRI, GSF, NAVOCEANO and temporal information databases into the single, object-oriented spatial database; and

receiving from a client computer in the database network an area of interest from a visual image, representing active data objects, displayed on a computer on the network;

identifying to the client computer data available for the area of interest;

responsive to a request for the data, querying over the network data objects in at least one database associated with the area of interest;

receiving from at least one remote computer over the network data objects in the object oriented database associated with the area of interest and creating and creating an object-oriented database of the geospatial data using object models; and

transmitting a web-based applet to the client computer for viewing the data objects overlaid on a map display .

32-34. (Cancelled).

35. (Currently Amended) The real-time geospatial object oriented database data distribution system of claim 23 ~~34~~, wherein ~~the processor~~ said querying includes querying ~~queries~~ from the database using an interface system to transmit query messages that conform to Common Object Request Broker Architecture.

36-37. (Cancelled)

38. (Currently Amended) A real-time geospatial object oriented database data distribution system, comprising:

at least three processors ~~processor means~~, connected to each other via a network, for storing in storage ~~means~~ connected to a first of the processors ~~processor means~~ an object-

oriented database of data including two or more disparate data formats having spatial and temporal information[[]], for specifying an area of interest from a visual image, representing active data objects, displayed on ~~one~~ a second of the ~~processors~~ processor means; , for querying from a third of the processors ~~another processor means~~ over the network data objects in the database associated with the area of interest[[]] for receiving in the first ~~one~~ processor ~~means~~ data objects in the database associated with the area of interest; and for displaying the data objects by transferring from the first processor a web-based applet to the second processor, the second processor executing the web-based applet to retrieve and display the data objects overlaid on a map display on the second processor.

39. (Currently Amended) The real-time geospatial object oriented database data distribution system of claim 38, further comprising an ~~wherein the processor means query from the database using~~ interface ~~means~~ for transmitting query messages conforming to Common Object Request Broker Architecture.

40. (Currently Amended) Computer programs stored on a computer-readable media to access in real-time geospatial data over a object oriented spatial database network, comprising:

an object-oriented database server code section to store data including two or more disparate data formats having spatial and temporal information;

a client code section; and

an interface code section in communication with the server code section and the client code section over the network to transmit and receive messages querying the data,

said computer programs for

receiving from a client computer in the database network an area of interest from a visual image, representing active data objects, displayed on the client computer;

identifying data available for the area of interest,

responsive to a request for the data, querying over the network data objects in at least one object oriented database associated with the area of interest,

receiving from at least one remote computer over the network the data objects associated with the area of interest,

creating an object oriented database including the retrieved data objects; and

transmitting a web-based applet to the client computer for viewing the data objects overlaid on a map display .

41. (Previously Presented) The computer programs of claim 40, wherein programming language of the client code section differs from programming language of the server code section.

42. (Previously Presented) The computer programs of claim 40, wherein the data includes at least two or more data formats of Vector Product Format (VPF), Raster Product Format (RPF), Text Product Standard (TPS), Environmental Systems Research Institute shape format

(ESRI), Generic Sensor Format (GSF), and Naval Oceanographic Office text format (NAVOCEANO).

43. (Previously Presented) The computer programs of claim 40, wherein querying the data includes updating the data.

44. (Cancelled)

45. (New) A method according to claim 23, wherein said applet allows a user at the client computer to view the data objects overlaid on the map display without downloading the database from the remote computer and without executing separate software in the local computer to view the data objects.

46. (New) A method according to claim 23, further comprising
creating an object-oriented database of geospatial data associated with the area of interest responsive to receiving the area of interest.

47. (New) A method according to claim 46, further comprising storing the object-oriented database on a storage unit connected to the network without downloading the database to the client computer.

48. (New) A method according to claim 23, further comprising
an object request broker interfacing between the applet and a server, the applet
executing on the client computer.
49. (New) A method according to claim 23, wherein at least one of the object oriented
databases includes data from environmental sensors.
50. (New) A method according to claim 23, wherein at least one of the object oriented
databases includes temporal weather information.
51. (New) A method according to claim 23, wherein said area of interested is selected by
a user at the client computer from a world map display.
52. (New) The method according to claim 26, wherein the three dimensional data objects
are generated using gridded, triangulated irregular network, and vector data.
53. (New) The method according to claim 26, wherein a three dimensional image is
generated using digital terrain elevation data from an object oriented database on a remote
computer and two dimensional feature data stored on a server and retrieved by the applet.
54. (New) The method according to claim 23, further comprising:

designing object models for the geospatial data including two or more disparate data formats; and
storing the object-oriented database on a storage unit connected to the network.

55. (New) A method according to claim 23, further comprising, responsive to a request from the client computer:

locating a nearest city to the area of interest and opening a web page with the local weather forecast for the nearest city.